



## 5. If at end of CA, release the application buffers to the file. 2. Create log records in the deleted by the application. Determine the next set of File Management Server's 3. Mark the application log 1. Obtain a record lock on directly into the application logs for each log record in each record updated or the application log area. If CA lock not already 8. Read the data blocks held, obtain CA lock. 4. Write the modified File Management Batch Sequential Processing Flow area empty. data blocks. CA lock Server **Application Address Space** 8 Call File Management Server Figure 3. 99 Return to application File Manager Logic in move next record to in the application log buffer area with new record in application Create log records if update, replace application buffer If delete, remove If not at End of Buffer, application record from Goto TOP TOP: YES 49 ${\mathcal S}$ **Application Program** Do Until All Records Obtain Next Record Need to Update or Delete Record 2 Processed

## Figure 4.

